YUGAROV, Ye.M.; KRYLOV, Yu.V.; KUZNETSOV, V.S.

Some problems of the development of an optimal acoustic environment for a manned space cabin. Izv. AN SSSR. Ser. biol. 31 no.1:14-20 Ja-F 166. (MIRA 19:1)

1. Submitted July 26, 1965.

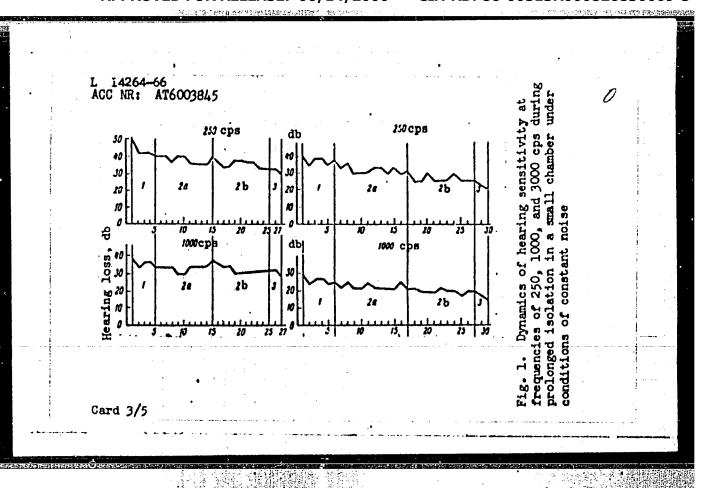
AUTHOR: Krylov, Yu. V. (1)	
TITIE: Peculiarities of human auditory sensitivity under conditions of continuous and prolonged exposure to medium intensity noise	
SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 102-106	
TOPIC TAGS: life support system, audition, test chamber, acoustic biologic effect, cosmonaut, spacecraft capsule environment	
ABSTRACT: During spaceflight various life-support systems such as ventilators generate constant noise. Under certain conditions, this noise factor can be expected to have an unfavorable effect on cosmonauts. To test this possibility, the auditory sensitivity was studied in 8 subjects kept in a small hermetic chamber for 27—60 days. These subjects were exposed to constant noise with a maximum intensity of 60—65 db (800—1800 cps) and minimum intensity of 4—5 db (one octave higher). Hearing tests were con-	

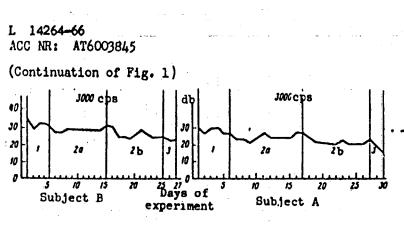
L 14264-66 ACC NR: AT6003845

ducted with an AU-5 audiometer and a telephone located in the chamber. Audio thresholds were determined at 125, 250, 500, 1000, 3000, and 8000 cps. At the end of the experiment, hearing sensitivity was determined until full audio restoration. In all, 350 hearing tests were conducted. Fig. 1 shows some results of this experiment.

Hearing thresholds were characterized by the following stages during the experiment. During the first stage, there was a maximum increase in hearing sensitivity especially during the first day. This is attributed to the so-called disguising or concealing effect of noise. An increase in the hearing threshold depends upon changes in noise characteristics. Since the frequency and amplitude of noise varied, the disguising effect could not decrease. Thus, an increase in hearing sensitivity can be explained not only as the result of adaptive changes in the auditory analyzer, but also as the total reaction of the subject to the novelty of the experimental conditions.

Card 2/5





*1, 2a, 2b, 3 - Experimental stages

In the next 4—5 days, the hearing threshold decreased by 5—7.5 db as compared to the first day. This reflected initial adaptation of the subjects to the experimental conditions.

The second stage (2a and b on the graph) was characterized by high stability of hearing sensitivity during the 23rd and 24th day of 30-day experiments.

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L 14264-66 ACC NR: AT6003845

The third stage (3) was characterized by a further decrease in hearing thresholds, which reflected an improvement in hearing. The author is not able to explain this phenomenon. However, it is suggested that the progressive improvement in hearing following prolonged exposure to noise reflects an intensified excitatory process in the cerebral cortex. Restoration of auditory sensitivity took place 10—15 min after the termination of the experiment; full restoration was observed a few months later. Orig. art. has: 1 figure. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 018 / OTH REF: 007

Card 5/5

"APPROVED FOR RELEASE: 06/14/2000

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EWP(m)/EEC(k)-2/EWA(h)/EWP(k)/EWT(d)/EWT(l)/EWT(m)/ETC(m)-6/T-2 L 21828-66 SOURCE CODE: UR/0216/66/060/661/0014/6026 ACC . 40 A P6003451 EWA(d)/FSS-2/EWP(w)/EWP(v) AUTHOR: Yuganov, Ye. M., Krylov, Yu. V., Kuznetsov, V. S. ORG: none TITLE: Some problems of development of an optimal acoustic environment in spaceship cabins SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 1, 1966, 14-20 TOPIC TAGS: noise tolerance, manned spaceflight, life support system, auditory analyzer ABSTRACT: The effect of high-frequency (up to 3000 cps) noise (60-76 db) on the human auditory analyzer was studied for periods of up to 60 days in order to determine the acceptable threshold value of life-support system noise in manned spacecraft. Factors such as hypokinesia, restrictive clothing, capsule living conditions, and the monotony of sound were taken into consideration. Continuous noise for 72 hours raised the auditory threshold by 15-20 db and 10-day experiments resulted in a 20-25 db increase with functional disorders of the auditory. analyzer after 10 days. Intermittant noise (up to 7 hrs/day) showed a cumulative UDC: 629.195.2:534.83

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ground noi to 30 days To lessen	after months se in spacecry. An excessive the effects of out volume/she	aft cabin /ely low monoton	is were for noise leve ly, change	und to be 50 i el is Harmful s in amplitud	and 60 pho to the ne	ons for periouropsychic E	ystem.
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CIA-RDP86-00513R000826830009-5

L 25971-66 EWT(1) SCTB DD

ACC NR: AP6015415

SOURCE CODE: UR/0216/66/000/003/0424/0426

AUTHOR: Krylov, Yu. V.

12 12

ORG: none

TITLE: Functional characteristics of the human auditory analyzer under the influence of Coriolis accelerations of different magnitude

SOURCE: AN SSSR. Izvestiya. Seriya biologicheskaya, no. 3, 1966, 424-426

TOPIC TAGS: auditory analyzer, vestibular analyzer, Coriolis acceleration, auditory sensitivity, hearing

ABSTRACT: Changes in auditory analyzer function during vestibular disturbances caused by Coriolis accelerations were studied. Four subjects stayed in the MVK-1.7 slow-rotation room for 24-hr periods in four series of experiments (including a control). Rotation rates were 5.3 deg/sec, 10.6 deg/sec, and 21.2 deg/sec. Coriolis accelerations were created by periodic inclinations of the torso and head at a rate of approximately 1/sec. Thresholds of auditory sensitivity (at frequencies from 125-8000 cps) were determined with an AU-5/audiometer in an attempt to detect auditory disruptions in a wide range of frequencies. Auditory determinations were made at the beginning and end of the experiment, and halfway through the experiment. A background tone (frequency 1000 cps, intensity 75 db) was used to study more complex auditory function. Experimental results showed that a 24-hr stay in a small chamber

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ACC NR: AP6015415

(the MVK-1) without rotation produced 10—12.5 db fluctuations in audiosensitivity. Continuous rotation for 24 hr with a constant angular velocity of 5.3 deg/sec did not cause essential changes in audiosensitivity. But, continuous rotation in the same room at higher velocities, 10.6 and 21.2 deg/sec, changed audiosensitivity by 12.5—25 db. It was concluded that general fatigue caused by vestibular stimulation definitely affects audiosensitivity. The physiological mechanisms of interaction between the auditory and vestibular analyzers in the conditions studied are not yet understood.

[JS]

SUB CODE: 06/ SUBM DATE: 22Dec65/ ORIG REF: 005/ ATD PRESS: 4266

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CIA-RDP86-00513R000826830009-5

ACC NR. ATÓ036598

SOURCE CODE: UR/0000/66/000/000/0233/0234

AUTHOR: Krylov, Yu. V.

ORG: none

TITLE: Functional state of the auditory analyzer in man during prolonged exposure to small coriolis accelerations (Paper presented at the Conference on Problems of Space Medicine held in Assow from 24-27 Pay 1966)

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, loscow, 1966, 233-234

TOPIC TAGS: biologic acceleration offect, coriolis acceleration, motion sickness, noise biologic effect, auditory analyzer

ABSTRACT:

Studies of the human auditory analyzer were run in a slowly rotating MVK-1 chamber which was designed under the direction of A. V. Lebedinskiy. Four series of experiments lasting 24 hr were conducted at rotational rates of 5.3°/sec, 10.6°/sec and 21.2°/sec. One test was a motionless control run. Coriolis accelerations consisted of inclining the trunk and head through a plane perpendicular to the rotation (one movement per second). Hearing threshold was tested at frequencies of 125—8000 cps and masking

Card 1/2

mall chambearing thre earing thre 0.6 and 21. The data exchanges in hanges to the control of the	shold. Rotat shold substar 2 /sec, a 15 ceeded those searing indice	tone (1000 cps noise). The 24-hr exest) resulted in a 10.0—12.5-db fluction at 5.3° /sec did not cause any fluctially differing from control values.—25 db fluctuation in hearing sensiting the control test. It is proposed the are not only specific to Coriolis a ional disorders caused by motion si 66-1167	ctuation in uctuations in . At rates of tivity was noted. hat the observed ccelerations but	
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DD/GD SCTB L 08831-67 EWT(I) UR/0000/65/000/000/0396/0397 SOURCE CODE: ACC NR. AT6036691 AUTHOR: Yuganov, Ye. H.; Hirzoyev, B. H.; Krylov, Yu. V.; Kuznetsov, V. S. ORG: none TITLE: Material for the physiological and hygienic establishment of permissible levels of noise pulses (acoustic shock waves) [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 19667 SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Hoscow, 1966, 396-397 TOPIC TAGS: acoustic biologic effect, sonic boom, electroencephalography, psychophysiology, blood chemistry, endocrinology Supersonic aviation has added acoustic snock (the impact of pulsed noise, commonly called a sonic boom) to the range of noise effects. Physiological and hygienic norms for the intensity of acoustic shock must be established for future use in civil aviation. Foreign literature devoted to the effect of acoustic shock on man emphasizes its psychoacoustic effect. In these studies the effect of acoustic shock on human physiological functions was also studied. The function of auditory, vestibular, and motor analyzers

L 08831-67

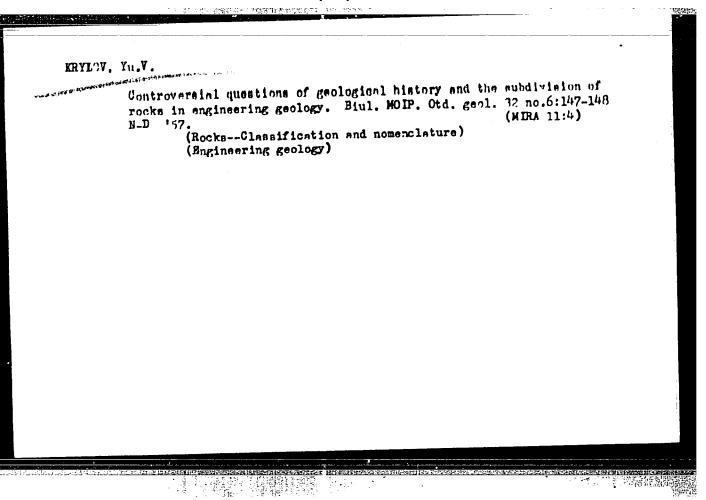
ACC NR. AT6036691

was investigated, together with cardiovascular activity, mental working capacity, electrocutaneous resistance, and hormone and carbohydrate metabolism. EEG's and EKG's were also recorded.

Two series of experiments were conducted with human subjects: in the first the effect of a single acoustic shock with an intensity of 2.5, 5.0, or 7.5 kg/m² was studied, and in the second the cumulative effect of acoustic shock was investigated for 5 days.

Experimental results showed no reliable physiological changes under the influence of a single acoustic shock with an intensity of 2--2.5 kg/m². However, an acoustic shock of 5--5.5 kg/m² causes shortening of the R--R1 interval of an EKG and decrease in the speed of arithmetical calculation. After single acoustic shocks of 7--7.5 kg/m², a moderate and brief disruption of the quality and speed of arithmetical calculation was noted. In addition, desynchronization of the alpha-rhythm and decrease in its amplitude were observed, as well as quickening of the pulse. Repeated and cumulative effects of acoustic shocks in the 7--7.5 kg/m2 intensity range pro-

duced changes [not described] in mental working capacity, EEG, EKG, and in the function of the auditory, vestibular and motor analyzers. However, there were no major discrepancies in humoral and endocrine function. Repeated acoustic shocks with an intensity of 99.5 kg/m² caused unfavorable psychoacoustic reactions, accompanied by shuddering and fright. Subjects complained of headaches, noise, and a full and stuffy feeling in the ears. Otoscopic examination showed small hemorrhages in tympanal epithelium. At the same time, the corticosteroid level in the blood increased reliably, indicating activitation of the pituitary-adrenal system. Changes in other physiological functions conformed to the pattern described above. The cumulative effect of acoustic shocks of 9.5 kg/m² is demonstrated by the relative degree of physiological change produced under these conditions and by the unfavorable psychoacoustic reactions, [N.A. No. 22; ATD Report 66-116] SUB CODE: 06 / SUBM DATE: OOMay66	L 08831-67	and the state of t		
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SUB CODE: 06 / SUBM DATE: 00May66	in the function of the audithere were no major disciplant peated acoustic shocks we psychoacoustic reactions complained of headaches. Otoscopic examination should be a same time, the coindicating activitation of physiological functions of cumulative effect of acoustive degree of physiological by the unfavorable pseudoscopic and by the unfavorable pseudoscopic discounting activity.	tory, vestibular and more repancies in humoral and the an intensity of 99.5 accompanied by shudded noise, and a full and stowed small hemorrhages ticosteroid level in the he pituitary-adrenal systic shocks of 9.5 kg/m²	tor analyzers. However the endocrine function. It is kg/m ² caused unfavor the endocrine function. It is the cars, as in tympanal epithelium blood increased reliables tem. Changes in other described above. The endocribed above these conditions	Re- able cts n.
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Similarity and dissimilarity between structural features in sediments of periglavial and losss formations. Biul.MDIP.Otd.geol. 35 no.4:
156-157 Jl-Ag 160.
(Sediments (Geology))

BANIN, A.P.; KONTOROVICH, Z.L.; KRYLOV, Yu.V.

Certain problems involved in the switching of petroleum pipelines.

Neft. khoz. 42 no.2:54-59 F 164.

(MIRA 17:3)

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In the Karl Marx and Friedrich Engels Miseum. Nauka i zhizn' (MIRA 16:1) 29 no.11:6-11 N '62. (MIRA 16:1) (Kngels, Friedrich, 1820-1895--Miseums, relics, etc.) (Marx, Karl, 1818-1883--Museums, relics, etc.)

ERYLOVA, Aleksandra The Academy of Health. Zdorov'e 2 no.1:23-24 Ja '56. (ACADEMY OF MEDICAL SCIENCES OF THE U.S.S.R.) (MLRA 9:3)

GILEVICH, Yu.S., prof.; TUSHINSKIY, I.I., zasluzhennyy vrach RSFSR; VEREYUTIN. Yu.M.; SKIBA, V.M.; KRYLOVA, A.A.

Some problems of the epidemiology, distribution and localization of the echinococcal disease. Uch. zap. Stavr. gos. med. innt. 8:7-29 163 (MIRA 17:7)

1. Kafedra obshchey khirurgii (zav. - prof. YU.S. Gilevich) Stavropel'skogo meditsinskogo instituta (rektor - zasluzhen-nyy deyatel' nauki, prof. V.G. Budylin).

GILEVICH, Yu.S., prof.; TOSHINSKIY, I.I., zasluzhennyy vrach ESFSR;
KRYLOVA, A.A., studentka 4-go kursa

Spreading and localization of hydatids. Uch. zap. Stavr.
gos. med. inst. 12:188-189 '63. (MIRA 17:9)

1. Kafedra obshchey khirurgii (zav. prof. Yu.S. Gilevich) Stavropol'skogo gosudarstvennogo meditsinskogo instituta i Pyatigorskaya gorodskaya bol'nitsa (glavnyy vrach A.S. Partigulov).

GILEVICH, Yu.S., prof.; KRYLOVA, A.A.

Some problems of surgery in the hydatid disease. Uch. zap. (MIPA 17:9) Stavr. gos. med. inst. 12:217-218 '63.

1. Kafedra obshchey khirurgii Stavropoliskogo gosudarstvennogo meditsinskogo instituta.

ABAYEV, Yu.I.; KRYLOVA, A.G.

Feeding habits of young roach (Rutilus rutilus heckeli) in the Beysug spawning ground and liman. Trudy AzNIIKKH no.6:127-131 (MIRA 17:8)

KRYLOVA, A. I. Cand Agri Sci — (diss) "Soils of the Red Banner Region of Kaliningrad Oblast," Moscow, 1959, 18 pp, 200 copies (All-Union Sci Res Institute of Fertilizers and Agricultural Soil Science, All-Union Academy of Agricultural Sciences im V. I. Lenin) (KL, 48/60, 115)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5

- 1. KRYLOVA, A. K.
- 2. USSR (600)
- 4. Ural Mountain Region Paleobotany
- 7. Stratigraphy and the prospects of oil in the Devonian deposits of the western slope of the Southern Urals (basins of the Zilima and the Zigana Rivers). (Abstract.) Izv.Glav.upr.geol.fon. no.2, 1947

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826830009-5

"Attempt in Classifying the Ordovician of the Central Part of the Irkutsk Cirque by the Distribution of Chemical Elements and the Mineralogical Composition of Rocks." p. 427

Geologicheskiy sbornik, 3, (Collection of Articles in Geology, Vol. 3), Leningrad Gostoptekhizdat, 1958, 47lpp. (Trudy, vyp 126, Vsesoyuznyy nertyanoy nauchno-issledovatel'skiy geologorasvedochnyy institut)

3(0) AUTHOR:

Krylova, A. K.

SOV/20-124-1-46/69

TITLE:

The Upper Devonian of Stolb Island in the Mouth of the Lena River (O verkhnem devone ostrova Stolb v ust'ye Leny)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 162-164

(USSR)

ABSTRACT:

The author describes a small part of the fauna from the strata mentioned in the title; collected by Ye. M. Lyutkevich in 1957, and describes her observations, which she made together with V. D. Nikiforova. The fault described by A. A. Mezhvilk (Ref 4) was not confirmed. The total thickness of the rocks is not over 100 m. The fauna found here (identification by A. K. Nalivkina) places the containing limestones in the Middle Prasmian substage of the Upper Devonian. Similar bituminous limestones were found in West Taymyr by Lyutkevich and G. A. Dmitriyev (Ref 2). According to D. V. Nalivkin the fauna of Stolb is related to the fauna of the Domanik strata of Nordvik, Novaya Zemlya and the northern Ural. By this means the connection between the Upper Devonian waters of the Arctic region can be inferred. The Domanik strata of Stolb Island are a connecting link between

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The Upper Devonian of Stolb Island in the Mouth of the Lena River

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theiroccurrence in Taymyr and in the Far East. One can speak of a wide distribution of the Domanik facies along the Arctic basin and of a connection with Timan and the eastern part of the Russian platform. The light color of the higher lying limestones in comparison with those mentioned above, allows the former to be assigned to the Upper Frasnian substage. The uppermost Devonian strata of Stolb Island consist of dark gray, often almost black limestones with characteristic splintery dislocation surfaces. In spite of the meagreness and its incomplete preservation, the fauna indicates relationship to the Famentian stage of the Upper Devonian. The limestones and limestone conglomorates overlying may be compared with the Lower Carboniferous sediments of Cape Krestyakh. As the fauna described here showed, higher Devonian strata are developed on Stolb Island than those indicated by Nalivkin from the Frasnian Stage of the Kharaulakhskiye Mountains (findings of V. N. Sokolov from the mouth of the Lena River) (Ref 5). The fauna of Stolb has all indications of adult forms, is, however, marked by small size. This might be traced back to unfavorable living conditions in the waters. The determination of Upper Devonian on Stolb Island

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The Upper Devonian of Stolb Island in the Mouth of the Lena River

SOV/20-124-1-46/69

indicates that west of Cape Krestyakh an uplift of strata occurs and not a sinking, as the maps of M. F. Lobanov? (Ref 1) and A. A. Mezhvilk (Ref 3) incorrectly indicate. The outlooks for oil occurrences in the Devonian (Domanik) northeast of the Siberian platform rise as a result of the discovery of highly bituminous limestones with inclusions of solid bitumen. There are 6 Soviet references.

ASSOCIATION:

Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy

geologorazvedochnyy institut

(All-Union Scientific Research Institute of Geological Prospecting

for Petroleum)

PRESENTED:

July 18, 1958, by D. V. Nalivkin, Academician

SUBMITTED:

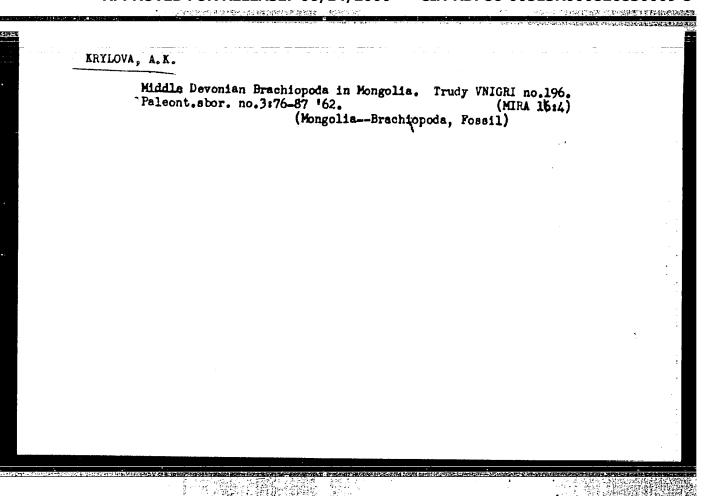
July 16, 1958

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Stratigraphy of paleozoic sediments in the Kara Valley (Pay-Khoy).
Trudy VNIGRI no.196. Paleont.sbor. no.3:59-75 '62.

(MIRA 16:4)

(Kara Valley (Pay-Khoy)—Geology, Stratigraphic)



KRYLOVA, A.K.; MENNER, V.V1.

Age of the Yukte series of the Siberian Platform. Trudy VNIGRI no.196. Paleont.sbor. no.3:89-105 '62. (MIRA 16:4) (Siberian Platform-Geological time)

KRYLOVA, Anna Kuziminichna; NEVELISHTEYN, V.I., vedushchiy red.; SAFRONOVA, I.M., tekhn.red.

[Stratigraphy and Brachiopoda of the Devonian of the Siberian Platform]
Stratigrafiia i brakhiopody devona Sibirskol platformy. Leningrad,
Gostoptekhizdat, 1962. 107 p. (Leningrad. Vsesoiuznyi neftianoi nauchnoissledovateliskii geologorazvedochnyi institut. Trudy, no.200)

(Siberian Platform—Geology, Stratigraphic) (Siberian Platform—Brachiopoda, Fossil)

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ANGER: Krylov, 3. V.; Krylova, A. De. (1) G: Institute of Goology and Geophysics, Siberian Department, AN SSSR, Hovosibirsk (1) G: Institute geologii i geofiziki Sibirskogo otdeleniya AN SSSR); "Spetsgoofizika" Trust (Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR); "Spetsgoofizika" Trust (Institut geologii i ka" kontora)	
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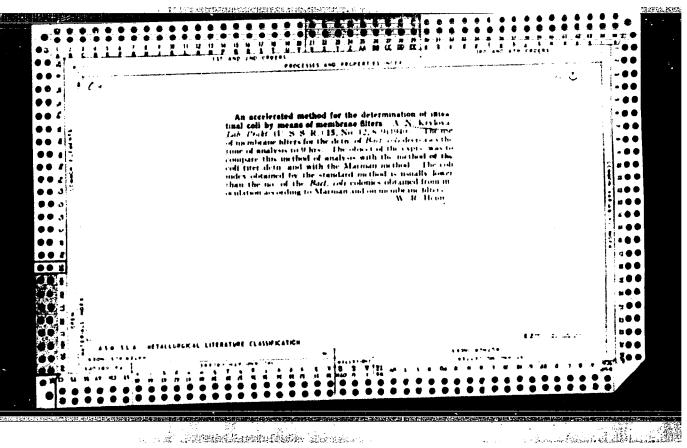
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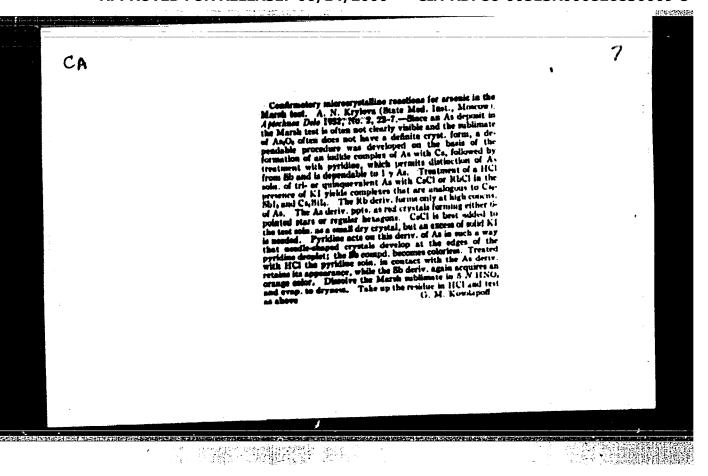
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L 04488-67 EWT(1) ACC NR: AP6021869 (A) SOURCE CODE: UR/0210/66/000/001/0010/0020 AUTHOR: Krylov, S. V.; Krylova, A. L.; Mishen'kin, B. P.; Mishen'kina, Z. R.; Samoylovich, A. S. ORG: Institute of Geology and Geophysics, Siberian Section, AN SSSR (Institut geological i geofiziki Sibirakogo otdeleniya AN SSSR); Novosibirak Geophysical Trust (Novosibirskiy geofizicheskiy trest) TITLE: Structure of the earth's crust in the center and in the southeast of the West Siberian lowland according to data from isolated seismic soundings SOURCE: Geologiya i geofizika, no. 1, 1966, 10-20 TOPIC TAGS: geology, tectonics, gas fuel, crude petroleum, seismulogy, anthoust ABSTRACT: Features of the methodology used for regional seismic investigations of the earth's crust in the West Siberian lowland along the Ob! and Ket! rivers are reported. The composite section of the earth's crust along a line from Khanty-Mansiysk to Ust-Ozernoye is cited. Conclusions, the results of an analysis of the seismic section and of the natural geophysical fields, are drawn concerning the basic outlines of the structure of the core of the territory investigated. The dependency of the characteristics of lithology, tectonics, and regional oil and gas bearing properties of the platform mantle on the plutonic structure is stressed. Orig. art. has: 1 map and 1 diagram showing the seismic section of the earth's crust. SUB CODE: 08 / SUBM DATE: 07 Aug 65 / ORIG REF: 020 Card 1/1 egh UDC: 551.14 : 550.834 (571.1)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5





KRYLOVA, A. N...

Chemistry, Legal

Stages of development, role, and perspectives of micro-chemical analysis in forensic chemical analysis. Apt. delo no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952. UNCLASSIFIED

KHYLOVA, A.N.

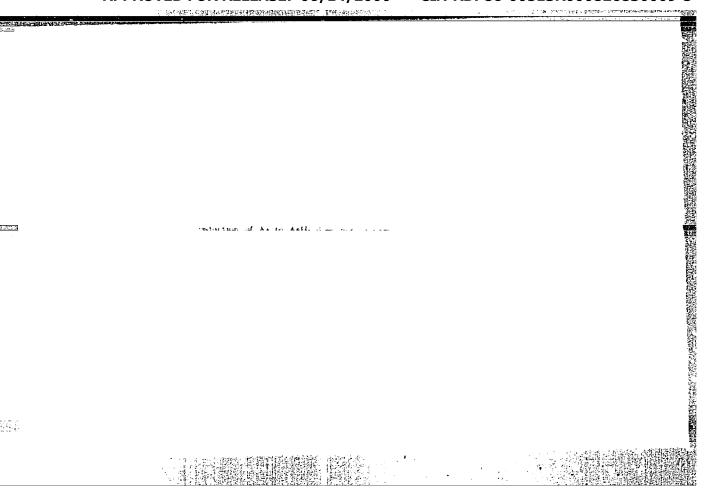
Microdetermination of lead, barium, and silver ions in forensic chemical analysis. Aptech. delo, Moskva 2 no.2:53-58 Mar-Apr 1953. (CLML 24:3)

1. Of the Forensic Chemistry Division (Head -- Prof. M. D. Shvaykova), State Scientific-Research Institute of Forensic Medicine (Director -- Prof. V. I. Promorovskiy), Ministry of Public Health USSE.

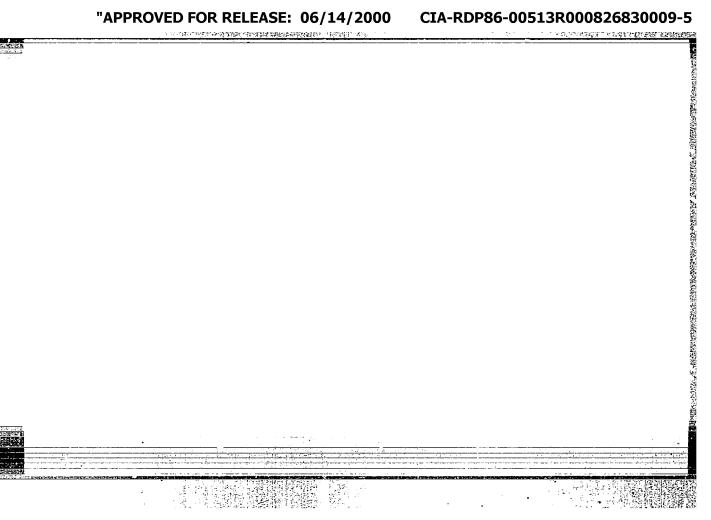
If the fractional method of analysis, introduced by N. A. Tananayev, is used, the number of steps is reduced as well as the time (down to 30-40 min), the size of the sample, and the quantity of reagents. In 100 g material taken from a dead body, 0.15 mg of Pb, 0.015 mg of Ba, and 0.05 mg of Ag can be detected. Destruction of org matter with nitric acid and sulfuric acid is preferable to that with ammonium nitrate and sylfuric acid.

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CIA-RDP86-00513R000826830009-5

KKYLIVE, K. F.

KRYLOVA, A.N.

Use of trilon B in determining Ba2+ in biological material. Apt. delo 6 no.6:28-32 N-D '57. (MIRA 10:12)

1. Is sudebnokhimicheskogo otdela (zav. - prof. M.D.Shvaykova)
Nauchno-issledovatel'skogo instituta sudebnoy meditsiny.
(BARIUM) (ACHTIC ACID)

KRYLOVA, A.N.

Detection of antimony in biological material by the fractional method. Sud.-med.ekspert. 2 no.3:31-36 J1-S '59. (MIRA 13:4)

1. Mauchno-issledovatel skiy institut sudebnoy meditsiny (dir. - prof. V.I. Prozorovskiy) Ministerstva zdravochraneniya SSSR.

(ANTIMONY--ANALYSIS)

KRYLOVA, A.N.

Determination of mercury in foressic chemical analysis of human liver and kidneys. Sud.-med. ekspert. 8 no.1:29-33 Ja-Mr '65. (MIRA 18:5)

1. Nauchno-issledovatel*skiy institut sudebnoy meditsiny (dir. - prof. V.I. Prozorovskiy) Ministerstva zdravookhraneniya SSSR, Moskva.

KRYLOVA, A.H.

Fractional determination of manganese in cadaveric material.

Sud.-med. eksp. 8 no.3:35-43 JLS '65. (MIRA 18:9)

1. Nauchno-issledovatel skir institut sudebnoy meditsiny (dir-prof. V.I. Prozorovskiy) Ministerstva sdravookhraneniya SSSR, Moskva.

KOLRSNIKOV, N.N.; KRYLOVA A.P.

Nuclear subshells and deformations in the range beyond lead. Zhur. eksp. i teor. fiz. 33 no.1:274-277 J1 157. (MLRA 10:9)

1. Moskovskiy gosudarstvennyy universitet.
(Nuclei, Atomic) (Transuranium elements)

VLCVIT, IT. IT.

AUTHOR TITLE KOLESNIKOV, N.N., KRYLOVA, A.P. 56-7-46/66
The Nuclear Subshells and the Deformations behind the Lead. (Kadernyye podobolochki i deformatsii v oblasti za svintsom. - Russian)

Za svintsom. - Russian)

Za svintsom. - Russian)

PERIODICAL

za svintsom. - Russian) Zhurnal Eksperim. i Teoret. Fiziki 1957, Vol 33, Nr 7, pp 274-277 (USSR)

ABSTRACT

First, reference is made to some previous works on the same subject and to the results obtained. The authors endeavor to find out

- a) with what numbers N and Z is the change of deformation connected?
- b) are not the subshells filled somewhere within range of the heavy nuclei?
- c) Determination of the energy of the closure of the subshells and the effect produced by deformation. For this purpose the authors investigated the problem from an energetical point of view. The binding energies of neutrons and protons were compared. Here not the absolute values of the binding energies of the neutrons, but their differences ate of importance. The curve of "reduced" binding energies of the neutrons has several curvatures which are found at the same points in the

CARD 1/2

The Nuclear Subshells and the Deformations behind the Lead.

56-7-46/66

case of all types of nuclei. This confirms the existence of particular features of nuclear energies at H = 150, 136, 144, 152. A similar investigation of the binding energies of the protons lead to particularities at Z = 86,92 and 96. In order to understand the significance of these numbers the authors analyzed the position of the lower rotation levels. In any case the numbers Z = 86 and N = 130 are connected with a sharp modification of the deformation. The special numbers N = 144and N 156, Z = 96 are in any case connected not only with the deformations alone. The effect produced by the deformation of the muclei amounts to about 0,7 MeV for neutrons and protons. The effect produced by all subshells amounts to only about 0,2 MeV (only in the case of N = 152 do they amoung to about 0,4 MeV). (With 1 Illustration)

ASSOCIATION:

Mosocw State University. (Moskovskiy gosudarstvennyy universitet. - Russian)

PRESENTED BY: SUBMITTED:

11.3. 1957

AVAILABLE:

Library of Congress.

CARD 2/2

SOV/56-37-2-34/56

21(1) AUTHORS:

Kolesnikov, N. N., Krylova, A. P.

TITLE:

The Proton Subshell of Z = 100

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959,

Vol 37, Nr 2(8), pp 550-553 (USSR)

ABSTRACT:

In the USSR, Flerov and his collaborators (in the USA Seaborg and Giorso) synthetized the short-lived isotopes 102²⁵³ and 102²⁵⁴. These isotopes were found to decay under α-emission (8.8 Mev - half life 2-30 sec; 8.3 Mev - 3 sec), as well as by way of a fission (30%); thus, the activity with a half life of 10 min, which was found by Swedish scientists, has probably nothing to do with the element 102. The authors of the present "Letter to the Editor" investigated the anomalous properties of the two isotopes of the element 102 and discovered several interesting facts. If, in a diagram, the reduced energy of the α-decay Q* is plotted against the number of neutrons N in the nucleus (here in figure 1 of N = 144 = 155) it is found that

nucleus (here in figure 1 of N = 144 - 155) it is found that these two isotopes are above the general curve, and that there-

Card 1/3

The Proton Subshell of Z = 100

SOV/56-37-2-34/56

fore the Q_{α}^* of these two isotopes are anomalously great. For nuclei with the same N but with different Z $Q_{\alpha}^*(N,Z) = Q_{\alpha}(N) = 0.8(Z-Z^*)$ holds; Z^* is that Z-value which corresponds to the more β -stable nucleus with given A, $Q_{\alpha}^*(N,Z)$ is the energy of the α -decay of the nucleus (N,Z^*) in Mev. Thus $Z^* = 0.356$ A + +9.1 is obtained. It follows from these relations that the $Q_{\alpha}^*(N)$ obtained from the experimentally found Q_{α} -values may coincide at any N-value, even in the presence of neutron shells and subshells; only in the gale of the existence of proton subshells do the corresponding points cancel out of the $Q_{\alpha}^*(N)$ -curve. Within the entire domain represented by this diagram this is the case only for the systemes of the element 102, which indicates that they both have proton subshells. The fact that the nuclear properties vary after Z = 100 is proved also by the sharp decrease of the half life of the spontaneous fission of 102^{254} ; figure 2 shows the curve $1_{\rm K} T_{\alpha} = f(E_{\alpha})$ - both isotopes of the element 102 show increased forbiddance in α -de-

Card 2/3

The Proton Subshell of Z = 100

507/56-37-2-34/56

cay (cf. also the curve $1e^{-\alpha} = f(z^2/A)$ in reference 4). In connection with the anomalous increase of the spontaneous fission probability, i.e. of the degreese of the stability of the nuclei after N = 152 and % = 100, the possibility of evaluating an upper limit of the Z-value is finally discussed. The authors thank Professors D. D. Ivanenko, A. Giorso and S. Tompson as well as G. N. Flerov for discussions, and S. I. Larin for valuable advice. There are ? figures and 12 references, 7 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

April 1, 1959

Card 3/3

3/028/62/000/002/004/004 D223/D303

AUTHORS:

Kaplan, A.S., Kozlova, N.N. and Krylova, A.P.

TITLE:

New steels and alloys

PERIODICAL:

Standartizatsiya, no. 2, 1962, 50-52

TEXT: The new Standard GOST - 5632 - 61, which replaces the old GOST - 5632 - 51, was introduced in January 1, 1962. It covers 99 types of steels and alloys. These are divided into three groups: Corrosionresisting, heat-resisting and heat and stress-resisting. Corrosion-resisting steels can withstand electrochemical corrosion (atmospheric, soil alkali, acid, salt, sea etc.); the heat-resisting type, when unloaded or slightly loaded state resists surface deterioration in a gaseous medium at temperatures above 550 C. Heat and stress resisting type operates subject to stresses at high temperatures. Division according to structural characteristics: Martensite, martensite-ferrite, ferrite, austenite-martensite, austenite-ferrite and austenite types. The new chemical classification is made on a ferro-nickel and nickel basis. Alloys

Card 1/2

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APPROVED FOR RELEASE: 06/14/2000

S/028/62/000/002/004/004 D223/D303

New steels and alloys ...

a) have over 65% Fe+Ni and the ratio of Ni to Fe is about 1:1.5; alloys b) have more than 55% of Ni. The comparison of the old and new standards for all three groups is given. For each type its application is indicated according to working temperatures. The maximum amount of S and P is given by groups. The new names and their comparison with old names are given. Names have the form of letters, e.g. nickel (H) and its content in % (say 7%) is given as H7 (N7) etc. Tables giving all possible specific data on application, temperature and duration are added to the Standard.

Card 2/2

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S/659/62/009/000/023/030 I003/I203

AUTHORS

Krylova, A. P., Maslenkov, S. B., and Zharkova, D. N.

TITLE

The kinetics of oxidation and the structure of oxides of some industrial heat-resisting

alloys

SOURCE -

Akademiya nauk SSSR. Institut metallurgii. Issledovaniya po zharoprochnym splavam

v. 9. 1962. Materialy Nauchnoy sessii po zharoprochnym splavam (1961 g.), 162-164

TEXT: The purpose of this work is to investigated the kinetics of oxidation and the phase composition of the oxide layers formed on the surfaces of 9M-813, and 9M-835 steels and of 9M-559A and 9M-652 alloys when they are heated in the air from 1 to 100 hours at 900° , 1000° , 1100° and 1200° C. The high corrosion resistance of these alloys is due to the formation of oxide layers of the spinel type on their surface. The EI-813 and EI-835 steels have a high heat-resistance up to $1000-1050^\circ$ C due to their high chromium content. The authors refrain from explaining all the experimental data obtained as they consider their investigation to be unfinished. In the discussion, Prokoshkin D. A. pointed out the inconsistency of the data on the position of the Cr_2O_3 layer. There is 1 figure.

X

Card 1/1

41.951

B/048/63/027/001/041/043 B108/B190

24.6410

Kolesnikov, N. N., Krylova, A. P., and Kandybarov, V. K.

TITLE:

AUTHORS 1

Beta-stability of heavy elements

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 27, no. 1, 1963, 132-136

TEXT: This paper aims to show that the overall beta-decay time, τ_{β^-} , varies regularly within limited regions of a nuclear system. Heavy nuclei $(Z \geqslant 87,\ N \geqslant 133)$ with about the same deformation are the examples. Except for very low $(Z - Z_{\beta^-})$, $\log \tau_{\beta^-}$ for a nucleus (A,Z) decreases roughly linearly with increasing $\log(Z - Z_{\beta^-})$. Z_{β^-} is the atomic number of a fictitious isobaric nucleus (A,Z_{β^-}) which is at the energy threshold of beta-decay where $Q_{\beta^-}=0$. A similar law was also found for electron capture. These results can be explained if the following is assumed: (1) the major contribution comes from a (or a few) transition to the ground or a slightly excited level of the final nucleus, having (among Card 1/2

Beta-stability of heavy ...

S/048/63/027/001/041/043 B108/B180

the other single-particle levels) the lowest forbiddenness, (2) the reduced probabilities of beta transitions in the region considered vary within narrow limits. These assumptions are confirmed by comparing estimates with experimental results for nuclei of all four types of parity. This paper was read at the 12. Annual Conference on Nuclear Spectroscopy, Leningrad, January 26 - February 2, 1962. There are 3 figures. The most important English-language references are; R. L. Lessler, M. Michel. Phys. Rev., 118, 263 (1960); K. Way, M. Wood. Phys. Rev., 92, 120 (1954).

Card 2/2

KOLESNIKOV, N. N.; KRYLOVA, A. P.; KANDYBAROV, V. K.

On \$-stability of heavy elements. Izv. AN SSSR. Ser. fiz. 27 no.1:132-136 Ja '63. (MIRA 16:1)

(Beta rays—Decay)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5"

KOLESNIKOV, N.H.; KRYLOVA, A.P.; KANDYBAROV, V.K.

Beta-stability of heavy elements. ¹zv. vys. ucheb. zav.; fiz. no.5: 151-155 '63. (MIRA 16:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

KEYLLIA, NP.

AUTHORS:

Pridantsev, H. V., Krylova, A. R.

32-2-30,00

TITLE:

Methods for Testing the Thermal Resistivity of Steel Sheets and of Alloys (Metodika ispytaniya na termostoghost)

listovykh stale, i splavov)

PERIODICAL:

Zavodskaya Laboratoriya, 1°58, Vol. 24, Nr 2, pp. 204-209

(ussn)

ABSTRACT:

The method described here has been applied since 1950 and does not show the deficiencies of other investigation methods, e.g. the insufficient fixing of the investigation samples. The sheet samples destined for investigation are 120 x 120 mm in size and have 5 holes in the centre, whereas they are firmly fixed to the basis at the corners with four bolts. The heating is performed by means of a glass-blower cas flame during 1 minute and the coolin to a desired temperature in an air jet of required temperature also during 1 minute. This heating and cooling is repeated until cracks are formed from the centre hole to the other four holes. As may be seen from a figure, a crater-like buckle and a distortion of the sample platelet are formed during this process. The crack formation can be observed with the

Card 1/2

Methods for Testing the Thermal Resistivity of Steel Sheets and of Alloys Sheets 32-2-30/60

help of a pocket lenc. The deformation of the sheet sample is computed from the distortion of the centre hole (expressed in mm). It was observed, that the thermal resistivity of an austecitic Cr-Mi-alloy decreases with an increase of sheet thickness. An increase of size of the grains leads to the same effect. Based on the principle of the method described simultaneous investigation methods for several camples can be developed. There are 5 figures and 1 reference.

ASSOCIATION:

Central Scientific Research Institute of Ferrous Metallurgy (Tsentral'nyy nauchno-issledov tel'skiy institut chernoy metallurgii)

AVAILABLE:

Library of Congress

1. Steel-Thermodynamic properties 2. Heat resistant alloys-Thermodynamic properties

Card 2/2

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Heat-resistant, economically alloyed £1835 steel. Metalloyed.

1 term, obr. met. ne.10:27-28 0 '61. (EFA 14:10)

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KRYLOVA, A.R., ZHARKOVA, I.H., MASLENKOV, S.B.

Kinetics of exidation, composition and structure of the exide films of refractory steels and alloys.

SPECIAL SIEELS AND ALLOYS (SPETSIAL'NYYE STALI I SPLAVY), Collection of Studies, Issue 27, 240 pages, published by the State Scientific and Technical Publishing House for Ferrous and Non-Ferrous Metallurgy, Moscow, 'SSR, 1962.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5"

KAPLAN, A.S.; KOZLOVA, N.N.; KRYLOVA, A.R.

New steels and alloys. Standartizatsiia 26 no.2:50-52 F '62.

(MIRA 15:2)

(Steel--Standards) (Steel alloys--Standards)

KRYLOVA, A.R.; MASIENKOV, S.B.; ZHARKOVA, D.N.

Kinetics of oxidation and the structure of oxides of certain commercial heat-resistant steels and alloys. Issl. po sharopr. splav. 9 162-164 '62. (MIRA 16:6) (Heat-resistant alloys) (Metallic films)

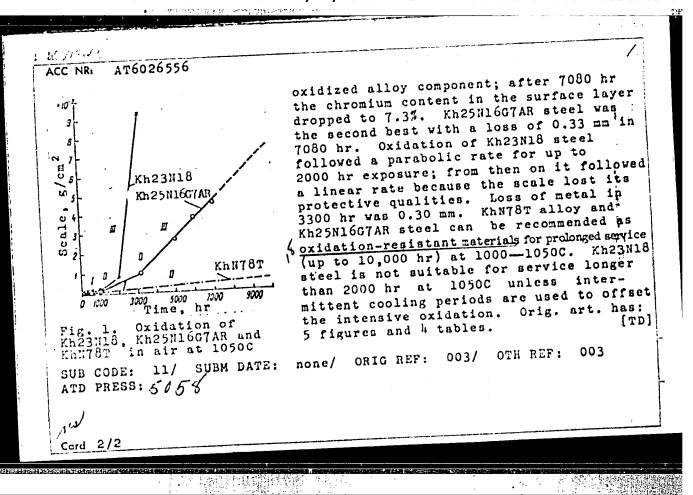
KRYLOVA, A.R.; ZHARKOVA, D.N.; MASLENKOV, S.B.

Kinetics of oxidation, composition, and structure of oxide films on heat-resistant steels and alloys. Sbor.trud.TSNIICHM no.27: 169-178 162. (MIMA 15:8) (Heat-resistant alloys)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826830009-5

<u>i. 10975-66</u>—ENT(m)/ENF(t)/DTI IJF(c)JD/JXT(CZ) ACC NR: AT6026556 SOURCE CODE: UR/2776/66/000/046/0140/0150 AUTHOR: Krylova, A. R.; Kozlova, N. N.; Zharkova, D. N. 42 ORG: none / B+1 Oxidation behavior of oxidation-resistant Kh23N18 and TITLE: Kh25N16G7AR steels and KhN78T alloy at 1050°C SOURCE: Moscov. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metellurati. Sbornik trudov, no. 46, 1966. stali i splavy (Special steels and alloys), 140-150 Spetsial nyye TOPIC TAGS: alloy steel, nickel alloy, chromium containing steel, nickel containing steel, manganese containing steel, metal corrosion, metal property / Kh23N18 steel, Kh25N16G7AR steel, KhN78T nickel ABSTRACT: The oxidation behavior of oxidation-resistant Kh23N18 (EI417) and Kh25N16G7AR (EI835) steels, and KhN78T (KI435) alloy at 1050C for K 7000-8000 hr has been investigated. Cylindrical specimens were 10 mm in diameter and 20 mm high. It was found that KhN78T alloy had the highest oxidation resistance (see Fig. 1). The spinel-type scale formed on this alloy had the best protective properties. The loss of metal after 8000 hr amounted to 0.07 mm. Chromium was the most Card 1/2



PAVLYUK, N.P., insh.; VAKUL'CHIK, V.G., insh.; SERDYUK, N.S., insh.; KRYLOVA, A.S., insh.; KHARITONOV, A.G., insh.

Remote control and romote signaling apparatus for mine ventilation systems. Ugol.prom. no.5:64-66 S-0 '62. (MIRA 15:11)

1. Luganskiy filial instituta avtomatiki Gosplana UkrSSR.
(Mine ventilation) (Remote control)

KRYLOVA, A.S., nauchnyy sotrudnik

Controlling apple aphids. Zashoh. rast. ot wred. i bol. 5 no. 8:42-43 Ag 160. (MIRA 13:12)

l. Krymskaya opytnaya stantsiya sadovodstva. (Apple aphis)

SAVKOVSKIY, P.P., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.; OLIFER,
A.V., nauchn. sotr.; SHCHERBAKOV, V.V., nauchn. sotr.; POVZUN,
I.D., nauchn. sotr.; MASLO, Ye.M., nauchn. sotr.; KRYLOVA,
A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.;

VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO, D.P., nauchn. sotr.;
BOGDAN, L.I., nauchn. sotr.; GROTTE, G.M., nauchn. sotr.;
SKUTSKAYA, N.P., red.; DAKHNO, Yu.B., tekhn. red.

[Pests and diseases of fruit and berry crops] Vrediteli i bolesni plodovo-iagodnykh kul'tur; spravochnik. Kiev, Izd-vo AN Ukr.SSR, 1962. 275 p. (MIRA 16:7) (Fruit-Diseases and pests)

SAVKOVSKIY, P.P., nauchn. sotr.; ISAYEVA, Ye.V., nauchn. sotr.; OLIFER, A.V., nauchn. sotr.; SHCHEMBAKCV, V.V., nauchn. sotr.; FOVZUN, I.D., nauchn. sotr.; MASLO, Ye.M., nauchn. sotr.; KRYLOVA, A.S., nauchn. sotr.; MATVIYEVSKIY, A.S., nauchn. sotr.; VASIL'KOVA, A.K., nauchn. sotr.; VOVCHENKO D.P., nauchn. sotr.; BOGDAN, L.I., nauchn. sotr.; GROTTE M.G., nauchn. sotr.; CHEFUR, N.D., red. ...

[Pests and diseases of fruit and berry plants; a manual] Vrediteli i bolezni plodovo-iagodnykh kul'tur; spravochnik. Kiev, Naukova dumka, 1965. 287 p. (MIRA 18:9)

YENIKEYEV, E.Kh.; KRYLOVA, A.V.

Poisoning of iron catalysts of ammonia synthesis. Kin.i kat. 3 no.1:139-144 '62. (MIRA 15:3)

1. Institut khimicheskoy fiziki AN SSSR.

(Ammonia) (Iron) (Catalysts)

MARGOLIS, L.Ya.; YENIKEYEV, E.Kh.; ISAYEV, O.V.; KRYLOVA, A.V.; KUSHNEROV, M.Ya.; Prinimala uchastiye: VILENKINA, S.M., laborant

Modification of hydrocarbon oxidation catalysts. Kin.i kat. 3 no.2:181-188 Mr-Ap '62. (MIRA 15:11)

1. Institut khimicheskoy fiziki AN SSSR.
(Hydrocarbons) (Oxidation) (Catalysts)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5"

YEZHKOVA, Z.I.; IGFFE, I.I.; KAZANSKIY, V.B.; KRYLOVA, A.V.; LYUBARSKIY, A.G.; MARGOLIS, L.Ye.

Assirity, structure and the electric properties of mixed vanadium catalysts. Kin. 1 kat. 5 no.5:861-867 S-0 '64.

(MIRA 17:12)

1. Nauchno-issledovatel'skiy institut organicheskikh poluprovodnikov i krasiteley i Institut khimicheskoy fiziki AN SSSR.

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KRYLOVA, A.V.; KUZNETSOV, L.D.; KONYUKHOVA, I.N.

Effect of alkaline accelerators on the electron work function and the activity of ammonia catalysts. Kin. i kat. 5 no.5: 948-950 S-0 *64. (MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR i Gosudarstvennyy institut azotnoy promyshlennosti.

I. 8492-66 EWT(1)/EWT(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) JD/RM

ACC NR: AP5026475 SOURCE CODE: UR/0195/65/006/005/0854/0859

AUTHOR: Krylova, A.V.; Margolis, L. Ya.; Chizhikova, G.I.4

يدير جزا ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Electric properties of the volume and surface of zinc oxide

SOURCE: Kinetika i kataliz, v. 6, no. 5, 1965, 854-859

TOPIC TAGS: zinc oxide, work function, electric conductivity, adsorption

ABSTRACT: The electronic work function, electrical conductivity, and adsorption of oxygen were determined on pure and modified zinc oxide (containing 1 at. % Li or 1 at. % In) calcined for 6 hr in air at 500, 900, and 1300C. The conditions of thermal pretreatment of the ZnO semiconductor were found to have a considerable effect: depending upon these conditions, a symbatic or antibatic relationship of the volume and surface electronic properties was found. The mechanism of the action of impurities on these properties is apparently determined by the previous history of the sample. The observed dependence of the adsorptive capacity of zinc oxide relative to oxygen on the work function indicates the important role of the surface charge in the processes of adsorption and catalysis. Orig. art. has: 3 figures and 4 tables.

Card 1/2 UDC 546.47-31:621.315

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GLAZUNOV, I.S.; KRYLOVA, E.A.

Study on the distribution of coronary insufficiency and hypertension in a group of Moscow employees. Kardiologiia 4 no.4: 42-47 Jl-Ag * 64 (MIRA 19:1)

1. Institut terapii (direktor- deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov) AMN SSSR, Moskva.

KRYLOVA, F.D.; SAKHATOV, Ya.

Organization of trachoma control in Iolotan District. Zdrav. Turk. 4 no.6:38-40 N-D '60. (HIRA 14:1) (IOLOTAN DISTRICT—CONJUNCTIVITIS, GRANULAR)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826830009-5"

KRYLOVA, F.D.

Control of trachoma in the Turmen S.S.R. and problems of its complete elimination. Zdrav. Turk. 7 no.6:3-8 Je 63.

1. Glavnyy oftal molog Ministerstva zdravookhraneniya Turkmenskoy SSR.

(TURKMENISTAN—CONJUNCTIVITIS, GRANULAR)

KRYLOVA, G. A.

"Chemical changes of the macromolecules of cellulose under activated oxidation by hypochlorite." Acad Sci USSR. Inst of Organic Chemistry imeni N. D. Zelinskiy. Moscow, 1956. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Knizhnaya letopis', No. 16, 1956

KNYLUVH, 6-1-

AUTHORS:

Kaverzneva, Ye. D.; Ivanov, V. I.; Krylova, G. A.

62-1-17/21

TITLE:

Chemical Conversions of Cellulose during Activated Oxidation with Hypochlorite (Khimicheskiye prevrashcheniya tsellyulozy pri

aktivirovannom okiakenii gipokhloritom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957,

No. 1, pp. 122122 (U.S.S.R.)

ABSTRACT:

Investigation was conducted to determine the effect of an activated oxidation process on the chemical conversions of cellulose in the presence of hypochlorite. Using urea in the role of activator, it was found that the chemical changes in the cellulose macromolecule during activated oxidation with hypochlorite have exactly the same character as during oxidation without activator. Activated oxidation is accompanied by a smaller drop in the degree of polymerization than non-activated oxidation. It was established that activators only

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62-1-17/21

Chemical Conversions of Cellulose during Activated Oxidation with Hypochlorite

accelerate all oxidation processes. The difference in the final results namely, smaller drop in polymerization and greater white-ness of the cellulose at a uniform degree of oxidation, is explained by the kinetic conditions of the activated and nonactivated reactions and also by the equal degree of acceleration of cellulose oxidation.

Tables, graphs. There are 4 references, 3 of which are Slavic.

ASSOCIATION:

Academy of Sciences of the USSR, Institute of Organic Chemistry imeni N. D. Zelinskiy

PRESENTED BY:

SUBMITTED:

October 12, 1956

AVAILABLE:

Library of Congress

Card 2/2

5(7) 27 (70:

Zakharov, B. A., Ivanov, V. I., Krylova, G. A., V'yunova, N. G.

507/20-122-5-18/56

TITLE:

Holderly. Homogeneity and Properties of Celluloze (Mol. 'wiyer, ya gomogeneset' i avoyatva taellyulozy)

PERIODICAL:

Doklady Abademii mane SSSR, 1990, Vol 122, Nr 5, 22.816 - 616 (900R)

.. UTTACT:

For rome time the opinion was prevalent that the molecular weight of cellulose as a highly molecular compound (Refs 1-4) amounted to about 500 000 (Ref 5). However, viscosimetric measurements and the retardation of oxydative degradation yielded a figure of about 1, 600 000 for this weight (Refs 6-8). Recently this was confirmed (Refs 9-11). As early as 1939, strange and hardly explicable observations were made (Refs 12-13): the properties of attempth of the natural cellulose fibres became obvious in a solid state at an average molecular weight (H) of about up to 113 000; then the increase of strength is

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SOV/20-122-5-18/56

constantly reduced up to 160 000 share which it is the constant. Forthermore it was discovered that callulous is heterogeneous with respect to the length of chain molecules (Refs. 14, 15). Therefore that above figure of molecular weight must be considered as an average value depending undoubtedly on the atthict of masuring. A general idea of the heterogeneity of cellulous is offered by the average coefficient of haterogeneity

 $\overline{U} = \frac{\underline{M}_{\text{weight}}}{\underline{M}_{\text{num}}} - 1$, in which $\underline{M}_{\text{weight}}$ and $\underline{M}_{\text{num}}$ are the

application weights; average by weight and numerical average, respectively. In modern studies the heterogeneity of cellulate is described more completely and more accurately by means of functions of integral and differential calculus (Ref 16). At present some tests are conducted in order to estimate the changes in heterogeneity in different processes of solution and production and to combine the heterogeneity

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Molecular Homogeneity and Properties of Celluloge

SOV/20-122-5-18/56

with the quality of the cellulone products. This, however, was rather complicated and afforded little hope of success. The authors wanted to tackle the task of specifying the problem of chain molecule length. The more precise concept and meaning of homogeneity of cellulose served them well in this work. According to their opinion, two characteristics of homogeneity, which can be determined on the curve of mass distribution, are of decisive importance; a) the degree of homogeneity (mono-dispersion), which expresses the physical nature of the phenomenon. This characteristic is defined by the height and basis of the maximum on the curve. b) the other characterictic is determined by the legree of polymerization(P), which corresponds to the maximum. As a consequence, the super-molecular structure of cellulose (opposite position of molecules and inter-molecular bonds) can and must be determined by the de ree of molecular homogeneity. The authors proved this in experiments. Nitric ethers produced from cellulose in finished

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507/20-122-5-18/56

products were fractioned according to the method of precipitation (Ref 10). Examples are given and explained by means of curves (Fig 1, c even 1-4). The size i figure and 19 res rescent d of which are

Soviet.

AUGUSTATE: In titut are miss glay Ahirit in N.B.Zelimohogo Akadenii anad. SSSR (Institute of Organic Chemistry ideni N.D.

Zelinskiy of the Academy of Sciences USCR)

PRESENTED:

June 3, 1950, by P.A.Rebinder, Academic on

SUBMITTED:

May 25, 1958

Card 4/4

5(3)

AUTHORS:

Ivanov, V. I., Zakharov, B. A.,

SOY/20-123-4-32/53

Krylova, G. A., V'yunova, H. G.

TITLE:

A Chemical Method of Homogenizing Cellulose With Respect to Molecular Weight (Khimicheskiy metod gomogenizatsii tsell-

yulozy po molekulyarnomu vesu)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4,

pp 691 - 692 (USSR)

ADSTRACT:

In an earlier report by the authors (Ref 1) their theoretical ideas that the strength of the cellulose products is closely connected with the homogeneity of the cellulose with respect to the length of the chain molecules, was proved. From the data in publications it may be concluded that during the individual production stages (Refs 3-6) no considerable homogeneity of cellulose is obtained. The authors have investigated the absorption of acids by collulose from aqueous solution. Cotton cellulose was used for these experiments as well as chemical (sulfate) wood pulp. It was treated with HNO3

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(concentration 0.2 n at 92°) (cotton cellulose for 1 hour,

A Chemical Method of Romogenizing Cellulose With Respect SOV/20-123-4-32/53 to Molecular Weight

chemical wood pulp for half an hour). Furthermore the cotton cellulose was treated under the same conditions with ECl. Figures 1 and 2 show the results obtained: the cotton cellulose (Fig 1, Curves 1 and 2) is to a large extent heterogeneous with respect to its molecular weight. The treatment of cotton cellulose led to a degradation of long chain molecules with a definite homogenization (Curve 4), whereas the effect of nitric acid was accompanied by a considerable homogenization (Curve 3). The treatment of the sulfate chemical wood pulp according to the method of the institute (IOKh AS USSR) mentioned under Association leads to a physical-chemical homogenization of the cellulose. The maximum on the mass distribution curve is at P= 850 (Fig 2, Curve 2). HNO, causes the displacement of this maximum into the low-molecular range, i.e. P= 220. The results obtained make it possible to draw the conclusion that $\mathrm{HNO}_{\mathbf{z}}$ may be used for the homogenization mentioned in the title. The high degree of homogenization can be reached at a desired degree of polymerization by the selection of the conditions of the combined physico-chemical homogenization (concentration, temperature, duration). Thus,

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CIA-RDP86-00513R000826830009-5 "APPROVED FOR RELEASE: 06/14/2000

A Chemical Nethod of Homogenizing Cellulose With Respect SOV/20-123-4-32/53 Molecular Weight to

> an appropriate strength of various cellulose products can be obtained. There are 2 figures and 11 references, 3 of which are Soviet.

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk ASSOCIATION:

SSSR (Institute of Organic Chemistry imeni N. D. Zelinokiy

Academy of Sciences, USSR)

July 11, 1958, by V. A. Kargin, Academician PRESENTED:

June 20, 1958 SUBMITTED:

Card 3/3

ZAKHAROV, B.A.; IVANOV, V.I.; KRYLOVA, G.A.

Homogeneity of cellulose according to its molecular weight and its importance in manufacturing strong fibers. Khim.volok. no.3: 32-35 '59. (MIRA 12:11)

1. Institut organicheskoy khimii AN SSSR. (Cellulose) (Textile fibers, Synthetic)

5(3) AUTHORS: soy/62-59-5-38/40

Ivanov, V. I., Zakharov, B. A., Trukhtenkova, H. Ye.,

Krylova, G. A.

TITLE:

Letters to the Editor (Pis'ma redaktoru)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 5, p 949 (USSR)

ABSTRACT:

In earlier papers (Refs 1-3) the authors had shown that the strength of a hydrated cellulose fiber may be determined mainly from the homogeneity of the molecular weight of the cellulose. Accordingly, the molecular homogeneity of bleached sulfite paper with known strength characteristics was investigated after a single deformation (double folding). Papers of the type A, and papers made by the firms Aane and Serlakius were investigated. The mass distribution function in dependence on the degree of polymerization is represented by a figure for the various types of paper. Investigations showed that, in order to attain a high degree of strength, a very homogeneous cellulose in the range of polymerization above 2000 is necessary. This may be attained by using a cellulose for paper production,

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Letters to the Editor

SOV/62-59-5-38/40

which was obtained by means of the chloride of potash method, or by homogenizing the cellulose by means of nitrohydrochloric acid. There are 1 figure and 3 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: February 2, 1959

Card 2/2

5(1,3) 50\(\frac{1}{2}\)-127-2-45/7\(\circ\)

AUTHORS: Zakharov, B. A., Ivanov, V. I., Krylova, G. A.

TITLE: The Homogenization of Cellulose With Respect to Molecular.
Weight in the Process of Bleaching by Activated Oxidation

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2,

pp 396 - 397 (USSR)

ABSTRACT: The results obtained by the authors and the data given in the publications show that the usual chemical methods of cellulose.

working to hydrate cellulose fibers are not able to guarantee the production of highly solid structural-homogeneous fibers. Although the processes used change, as a rule, the heterogeneity of the molecular weight, they do not cause a considerable homogeneity of cellulose. Therefore it became a topical object to estimate the mentioned processes from the point of view of the change in homogeneity and to change these processes in the

necessary direction. The treatment of cotton- as well as of wood cellulose with diluted nitric acid causes a far-reaching

Card 1/3 homogeneity (Ref 3). In contrast to this, a modification

The Homogenization of Cellulose With Respect to SOV/20-127-2-45/70 Molecular Weight in the Process of Bleaching by Activated Oxidation

of the usual factors alone is not successful (Ref 4). From figure 1 follows that the usual bleaching of the sulphite cellulose of wood only reduces the homogeneity (Ref 5). In this connection it was interesting to modify the oxidation process upon which the bleaching with sodium hypochlorite is based. Therefore the authors investigated the topic mentioned in the title. Urea served as activator. The cellulose preparations of G. A. Krylova (Ref 6) were investigated. The figure 2:3 shows the distribution of the molecular weight of the sulphate cellulose which served, partly bleached and refined with alkali, as initial cellulose. The figure 2:1 shows that no homogenization proceeds if sodium hypochlorice influences this cellulose. A considerable specific homogenization is, in contrast to this, obtained, if the activated oxidation is used (preliminary treatment of the cellulose with urea) and the cellulose treated with hypochlorite oxidized after that. The above homogenization is bound to be connected with the increased accessibility of the long chain molecules for the oxidizing agent if the duration of the activated exidation amounts to only 1/10 of the usual one, and the content of carbonyl- and carboxyl groups in the bleached

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The Homogenization of Cellulose With Respect to SOV/20-127-2-45/7o Molecular Weight in the Process of Bleaching by Activated Oxidation

celluloses is on the whole equal (Ref 6). The specific degradation proceeding here increases the quantity of the molecules with the polymerization degree 800. It may therefore be expected that the use of catalysts or activators will establish conditions which guarantee a specific degradation and increase of the homogeneity of cellulose with respect to its molecular weight in several chemical working processes of cellulose materials and in their working to hydrate cellulose fibers. There are 2 figures and 6 references, 5 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

PRESENTED: March 21, 1959, by P. A. Rebinder, Academician

SUBMITTED: March 9, 1959

Card 3/3

ZAKHAROV, B.A.; IVANOV, V.I.; MAL'TSEVA, A.L.; KRYLOVA, G.A.

Controlling the specificity of cellulose homogeneity by means of temperature in the course of treatment with dilute nitric acid. Izv. AN SSSR.Otd.khim.nauk no.5:926-927 My 161. (MIRA 14:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Cellulose)

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AUTHORS:

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Kamenskiy, I. V., Sanin, I. K., Itinskiy, V. I., Krylova.G. D.

TITLE:

Polymers on the Basis of Reaction Products of Furfurole With Diacetone Alcohol and Boron-containing Ester of Diacetone

Alcohol

PERIODICAL:

Plasticheskiye massy, 1960, No. 5, pp. 15 - 17

TEXT: The authors proceed from joint investigations of the MKhTI im. Mendeleyeva (Moscow Institute of Chemical Technology imeni Mendeleyev) and NIIPM (Scientific Research Institute of Plastics) which showed (Refs. 5, 6) that the reaction of furfurole with compounds containing ketone groups yields monomers which are transformed into heat-resistant polymers under the action of heat. This investigation aims at studying the effect of the presence of boron upon the heat resistance of these polymers. First, the condensation of furfurole with diacetone alcohol is described. The molar ratio of the two components was 1:1, and condensation was conducted in the presence of 2 % NaOH as catalyst. The yield in resin was 65 - 70 %. When heated to 200°C without hardener, the resin became Card 1/2

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